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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known	
	Application Number	Unassigned		
	Filing Date	Herewith		
	First Named Inventor	John C. Gano		
	Group Art Unit	3672-3676		
	Examiner Name	George A. Suchfield		
Sheet	1	of	3	Attorney Docket Number
				970194U1D1R1D2USA

U.S. PATENT DOCUMENTS						
Examiner Initials ¹	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
GJ		5,794,702		NOBILEAU	08-18-1998	
		6,273,634		LOHBECK	08-14-2001	
		6,078,031		BLIAULT et al.	06-20-2000	
		6,070,671		CUMMING et al.	06-06-2000	
		5,667,011		GILL et al.	09-16-1997	
		6,253,852		NOBILEAU	07-03-2001	
		5,979,560		NOBILEAU	11-09-1999	
		6,390,202		HEIJNEN	05-21-2002	
		6,390,201		COON et al.	05-21-2002	
		6,371,211		HEIJNEN et al.	04-16-2002	
		6,371,203		FRANK et al.	04-16-2002	
		6,328,113		COOK	12-11-2001	
		6,318,457		DEN BOER et al.	11-20-2001	
		6,464,001		BRAITHWAITE et al.	10-15-2002	
		6,454,493		LOHBECK	09-24-2002	
		6,431,282		BOSMA et al.	08-13-2002	
		6,419,025		LOHBECK et al.	07-16-2002	
		6,135,208		GANO et al.	10-24-2000	
		5,318,122		MURRAY et al.	06-07-1994	
		5,353,876		CURINGTON et al.	10-11-1994	

FOREIGN PATENT DOCUMENTS								
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
CS		EP	0 136 935	B1	SOCIETE NATIONALE ELF	03-04-1987		
		EP	0 795 679	B1	ANADRILL INTERNATIONAL SA	05-15-2002		
		WO	96/23953	A1	INTEGRATED DRILLING	08-08-1996		
		WO	97/06345	A1	DRILLFLEX	02-20-1997		
CS		WO	99/13195	A1	NOBILEAU	03-18-1999		

Examiner Signature	George Suchfield	Date Considered	2/4/06
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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	Filing Date	Herewith		
	First Named Inventor	John C. Gano		
	Group Art Unit	8672 3676		
	Examiner Name	George A. Suchfield		
Sheet	2	of	3	Attorney Docket Number
				970194U1D1R1D2USA

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		Number	Kind Code ² (if known)			
69		2,397,070		J. A. ZUBLIN	03-19-1946	
		3,757,877		LEATHERS	09-11-1973	
		4,413,682		CALLIHAN et al.	11-08-1983	
		4,444,276		PETERSON, Jr.	04-24-1984	
		5,058,676		FITZPATRICK et al.	10-22-1991	
		5,255,741		ALEXANDER	10-26-1993	
		5,330,007		COLLINS et al.	07-19-1994	
		5,348,095		WORRALL et al.	09-20-1994	
		5,388,648		JORDAN, Jr.	02-14-1995	
		5,425,559		NOBILEAU	06-20-1995	
		5,462,120		GONDOUIN	10-31-1995	
		5,655,602		COLLINS	08-12-1997	
		5,695,008		BERTET et al.	12-09-1997	
		5,718,288		BERTET et al.	02-17-1998	
		2,331,293		H. W. BALLARD	10-12-1943	
		5,771,972		DEWEY et al.	06-30-1998	
		5,813,465		TERRELL et al.	09-29-1998	
		5,937,955		NIMS et al.	08-17-1999	
		6,059,037		Longbottom et al.	05-09-2000	
69		6,024,168		KUCK et al.	02-15-2000	

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				Filing Date	Herewith
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				Group Art Unit	3672
				Examiner Name	George A. Suchfield
				Attorney Docket Number	970194U1D1R1D2USA
Sheet	3	of	3		

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Examiner Signature	George Suchfield	Date Considered	2/4/06
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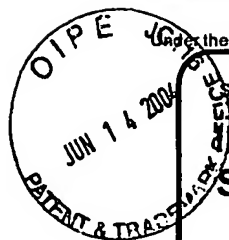
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Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/812,468
Filing Date	March 30, 2004
First Named Inventor	John C. Gano
Group Art Unit	3672
Examiner Name	G. Suchfield
Attorney Docket Number	970194U1D1R1D2USA

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials ²	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
GS		Canadian Office Action for application no. 2,272,680 dated March 31, 2003	
GS		Canadian Office Action for application 2,272,680 dated December 4, 2003	

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Signature

George Suchfield

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2/4/06

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